



Montana Department of Transportation
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Memorandum

To: Distribution

From: Lisa Durbin, P.E.
Construction Administration Services Engineer

Date: January 14, 2005

Subject: Detailed Drawings Book
Effective February 2005

The December 2002 edition of the Detailed Drawings, along with its several supplemental releases is being updated with a new release of drawings effective February 2005. We had nearly 70 drawings that were either, changed, added or deleted since the January 2004 supplemental release. Rather than just printing these updated drawings and then having you try to insert into your set of drawings, which were printed double sided on 11"x17" (half size) sheets, we decided to do a new printing of all the drawings.

This time we are changing the format to single sided on 8½"x11" (letter size) sheets, with the half size sheets being folded. The English and metric drawings will be in separate 3-ring binders, which should make handling and storage of the drawings more convenient both in the office and in the field. In order to provide the letter format, we are unable to efficiently collate the half size drawings in their respective locations amongst the letter size drawings. If you prefer to have your half size and letter size drawings collated, you will need to take a few minutes of your time to do this.

Since all of the drawings have received a new effective date stamp of February 2005, you might be wondering which drawings have been changed and what the changes are. Attached is a summary of the changes that have been made for your convenience. This is only a summary, so it will not detail every little change for you. Please contact me if you have any questions or comments at (406) 444-0453.

Attachment

Cc: Detailed Drawings Users
File

Below is a table summarizing the changes made to the Detailed Drawings for your convenience. Note, only the drawings that have changed are listed in this table. For more

Detailed Drawings Update – February 2005 Summary

detailed information on these drawings or any of the drawings not listed, please contact the Construction Administration Services Bureau at (406) 444-0453. You may also contact the MDT/MSU Design Section at (406) 994-1843 for any inquiries or comments on the Detailed Drawings at any time.

Dtl. Dwg. No.	Detailed Drawing Title	Summary of Changes
TTL1	Title Sheet	Updated MDT logo and misc. other changes.
TOC1	Table of Contents	Updated to reflect drawing changes.
TOC2	Table of Contents	Updated to reflect drawing changes.
TOC3	Table of Contents	Updated to reflect drawing changes.
TOC4	Table of Contents	Updated to reflect drawing changes.
TOC5	Table of Contents	Updated to reflect drawing changes.
TOC6	Table of Contents	Updated to reflect drawing changes.
101-05	Abbreviations	Added misc. abbreviations.
101-06	Abbreviations	Added misc. abbreviations.
101-07	Abbreviations	Added misc. abbreviations.
101-08	Abbreviations	New drawing; added misc. abbreviations.
203-10	Slope Rounding	Deleted Drawing
401-02	Shoulder Rumble Strips	Updated intermittent cycle pattern dimensions and added note under Interstate application about discontinuing at ramp openings.
552-04	Concrete, Riprap and Bedding Material Quantities For Sing. and Dbl. Culvert Installation	Added span x rise to English RCPC with FETS table. Changed English FETS table to look like metric format, including adding sizes not shown on English drawing. Updated quantities in English FETS table. Added RCPC with FETS for 120" x 62" (2590mm x 1575mm) pipe size.
603-08	Prefabricated RCP Flared End Terminal Section (FETS)	Added several pipe sizes, updated dimensions in tables, added slopes to tables and made misc. other changes.
603-10	Prefabricated RCP Arch Flared End Terminal Section (FETS)	Corrected two English pipe sizes, fixed some dimension errors, and added one pipe size (84" or 2100 mm equivalent size.)
603-24	Reinforced Concrete Pipe Joint	Fixed stray marks on drawing.
604-06	Type IV Drop Inlet With Slotted Drain	Added contraction joint and bond breaker notes and made misc. other changes.
604-08	Type II Curb Inlet With Slotted Drain	Added contraction joint and bond breaker notes and made misc. other changes.
606-05B	Metal Guardrail - Steel Posts	Added steel hole configuration note number 6.
606-09	Nested W-Beam Guardrail	New drawing.
606-13A	Optional Terminal Section - ET-PLUS	Changed "Traffic Direction" to "Impact Direction" on View D-D. Added note number 8.
606-13B	Optional Terminal Section - SKT 350	Fixed 1/4" dia. (M6) bolt length in table and denoted that 2 of these bolts are required on the Impact Head Connection Detail. Added note number 8.
606-40	Cable Guardrail	Changed degree of curve to radii on English drawing.
606-58	Box Beam to W-Beam Transition Section	New drawing.
606-60	Concrete Barrier Rail	Added Optional Loop Detail and made misc. other changes.
606-61	Alternate Concrete Barrier Rail	Added Optional Loop Detail and made misc. other changes.

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Dtl. Dwg. No.	Detailed Drawing Title	Summary of Changes
606-62	Concrete Barrier Rail Anchors	New drawing.
606-64	Tall Concrete Barrier Rail	Added Optional Loop Detail and made misc. other changes.
606-65	Alternate Tall Concrete Barrier Rail	Added Optional Loop Detail and made misc. other changes.
606-66	Concrete Barrier Rail Transition	Added Optional Loop Detail and made misc. other changes.
606-68	Concrete Barrier Rail Terminal Section (One-Way Departure)	Added Optional Loop Detail and made misc. other changes.
606-80	Schedule of Guardrail Hardware	Added hardware for Box Beam to W-Beam Transition.
606-82	Guardrail Hardware	Added hardware for Box Beam to W-Beam Transition.
608-05	Concrete Sidewalk	Changed some of the expansion joints to joints with a “Bond Breaker”. Modified expansion joint spacing. Changed the desirable cross slope from 2% to 1.5%, with 2% remaining the maximum. Added notes and made misc. other changes.
608-15	New Construction Public Sidewalk Curb Ramps	Added Truncated Domes, changed the designation “Diagonal” to “Diagonal Perpendicular,” showed a possible boulevard on the perpendicular ramp detail and made misc. other changes.
608-20	Alterations to Existing Facilities - Public Sidewalk Curb Ramps	Added Truncated Domes, changed the designation “Diagonal” to “Diagonal Perpendicular,” showed a possible boulevard on the perpendicular ramp detail and made misc. other changes.
608-25	Perpendicular Public Sidewalk Curb Ramps	Added Truncated Domes, showed a possible boulevard on the perpendicular ramps and made numerous notes and misc. other changes.
608-30	Parallel Public Sidewalk Curb Ramps	Added Truncated Domes and another section view, made numerous notes and misc. other changes.
608-35	Diagonal Perpendicular Public Sidewalk Curb Ramps	Added Truncated Domes and consolidated two section views of the ramps into one. Changed the designation “Diagonal” to “Diagonal Perpendicular” and made numerous notes and misc. other changes.
608-40	Truncated Domes	New drawing.
609-00	Concrete Valley Gutter	Made several misc. changes to drawing and notes.
609-05	Miscellaneous Curbs	Added “Bond Breaker” notes, updated expansion joint spacing and made misc. other changes.
609-10	Median Concrete Curbs	Updated expansion joint spacing, changed contraction joint depth from ½” (13mm) min. to 1” (25mm) min. and made misc. other changes.
609-12	Concrete Median Caps	Added “Bond Breaker” notes, updated expansion joint spacing and made misc. other changes.
618-00	Barricades and Channelizing Devices	Changed ASTM reflective sheeting specification in note number 8. Updated stripe width on plastic drums. Added “Tubular Markers” to the “Flexible Guide Post” headings. Made misc. Vertical Panel drawing and notes updates.
618-01	Construction Sign Details	Increased the supplemental plaque sizes and made misc. other changes.
618-04	Two-Lane Construction Project	See * Traffic Control note at bottom of table.
618-08	Two-Lane Construction Project Work Zones	See * Traffic Control note at bottom of table.
618-10	Two-Lane Construction Project Seal Coat	See * Traffic Control note at bottom of table.
618-12	Two-Lane Construction Project Lane Closure	See * Traffic Control note at bottom of table.

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Dtl. Dwg. No.	Detailed Drawing Title	Summary of Changes
618-14	Two-Lane Equipment Entrances On Low Volume Roads	See * Traffic Control note at bottom of table.
618-16	Two-Lane Equipment Entrances	See * Traffic Control note at bottom of table.
618-18	Two-Lane Construction Project Detour	See * Traffic Control note at bottom of table.
618-20	Divided Four-Lane Construction Project	See * Traffic Control note at bottom of table. Added “Divided” to drawing title.
618-21	Temporary Entrance Ramp Median Crossing	See * Traffic Control note at bottom of table.
618-22	Temporary Exit Ramp Median Crossing	See * Traffic Control note at bottom of table.
618-24	Divided Four-Lane Construction Project Work Zones	See * Traffic Control note at bottom of table. Added “Divided” to drawing title.
618-27	Divided Four-Lane Equipment Entrances	See * Traffic Control note at bottom of table. Added “Divided” to drawing title.
618-28	Divided Four-Lane Median Crossings	See * Traffic Control note at bottom of table. Added “Divided” to drawing title.
618-30	Temporary Four-Lane to Two-Lane Median Crossing	See * Traffic Control note at bottom of table.
618-32	Temporary Two-Lane to Four-Lane Median Crossing	See * Traffic Control note at bottom of table.
618-34	Short Duration Crew Signing	See * Traffic Control note at bottom of table.
618-36	Short-Term Stationary Crew Signing	See * Traffic Control note at bottom of table.
618-M1	Maintenance Guideline For Short-Term Two-Lane Crack Sealing Work Zone	See * Traffic Control note at bottom of table.
618-M2	Maintenance Guideline For Short-Term Two-Lane Chip Seal & Overlay (Piloted Traffic)	See * Traffic Control note at bottom of table.
618-M3	Maintenance Guideline For Short-Term Lane Closure on Interstate	See * Traffic Control note at bottom of table.
619-16	Typical Steel Post Mounting Details	Removed 3rd note references 619-14, which no longer exists.
619-32	Milepost Details	Removed Route I.D. Stickers.
620-00	Pavement Markings (Letters)	New drawing.
620-05	Pavement Markings (Numbers)	New drawing.
620-10	Pavement Markings (Words)	New drawing.
620-15	Pavement Markings (Arrows)	New drawing.
620-20	Pavement Markings (Symbols)	New drawing.

* **618 Series (Traffic Control)**: Traffic Control received a fairly extensive overhaul. Here’s a brief summary of the changes; modified sign layouts, eliminated and/or added several signs, increased the sizes of some supplemental plaques and made numerous misc. changes throughout. The new 2003 edition of the MUTCD sparked several of the changes, while many of the other changes were made in an effort to improve the drawings.